

# CALL FOR PAPERS

## 1<sup>ST</sup> IAA CONFERENCE ON DYNAMICS AND CONTROL OF SPACE SYSTEMS

Hotel HF Ipanema Porto, Porto Portugal, March 19-21, 2012

Organized by:

**International Academy of Astronautics (IAA)**

With the cooperation of

**The American Astronautical Society (AAS)**



# PRELIMINARY CALL FOR PAPERS

**ABSTRACT DEADLINE: November 14, 2011**

The first in the series of events organized by the International Academy of Astronautics (IAA) with the cooperation of the American Astronautical Society (AAS) aiming to join specialists in dynamics and control of space systems will be held in Porto, Portugal in the Hotel HF Ipanema Porto on March 19-21, 2012. It will be followed by a satellite event, **7<sup>th</sup> International Workshop and Advanced School "Spaceflight Dynamics and Control"** organized at the Engineering School of the Porto University on March 22-23, 2012.

Manuscripts are solicited on topics related to analysis of space systems, including but not limited to:

- Attitude dynamics and control
- Attitude sensors and actuators
- Dynamics and control of large space structures and tethers
- Mission design and optimization
- Optimal control in space flight dynamics
- Orbital dynamics and determination
- Satellite constellations and formation flying
- Space structures development and verification
- Spacecraft guidance, navigation and control

Manuscripts will be accepted based on the quality of the extended abstract, the originality of the work and/or ideas, and the anticipated interest in the proposed subject. Submissions that are based on experimental results or current data, or report on ongoing missions, are especially encouraged. Complete manuscripts are required before the conference.

The working language for the conference is English.

## SPECIAL SESSIONS

Proposals are being considered for suitable special sessions, such as topical panel discussions, invited sessions, workshops, mini-symposia, and technology demonstrations. A proposal for a panel discussion should include the session title, a brief description of the discussion topic(s), and a list of the speakers and their qualifications. For an invited session, workshop, minisymposium, or demonstration, a proposal should include the session title, a brief description, and a list of proposed activities and/or invited speakers and paper titles. Prospective special session organizers should submit their proposals to the Conference Chairs.



## VENUE

Porto is the second largest city in Portugal and one of the major urban areas in the Iberian Peninsula. Porto is the largest city of Northern Portugal. The Historic Centre of Porto, classified as World Heritage by UNESCO, is one of the most attractive entertainment venues for visitors, providing a rich variety of monuments and ordinary dwelling, from different periods stretching back as far as the 14th century.

More information about Porto: <http://wikitravel.org/en/Porto>; <http://www.visitporto.travel>.  
Hotel HF Ipanema Porto web page: <http://www.hfhotels.com/gb/?s=7&ss=58> .



## INFORMATION FOR AUTHORS

The papers for the conference program will be selected basing on the quality of extended abstracts. The full paper has to be submitted before the conference, by March 12, 2012. The conference proceedings will be published by Univelt, Inc. in its series "Advances in the Astronautical Sciences", indexed in *ISI Web of Science* and *Scopus*.

Due to the large number of expected submissions we encourage authors to submit abstracts early. Notification of acceptance will be sent via email by December 19, 2011. Detailed author instructions will be sent by email following acceptance. By submitting an abstract, the author affirms that the manuscript's majority content has not been previously presented or published elsewhere.

The contributors requiring an official letter of acceptance should contact the Technical Chairmen by email at their earliest opportunity.

**Technology Transfer Notice** - Technology transfer guidelines substantially extend the time required to review abstracts and manuscripts by private enterprises and government agencies.

To preclude late submissions and withdrawals, it is the responsibility of the author(s) to determine the extent of necessary approvals prior to submitting an abstract.

**No-Paper/No-Podium Policy** - A complete manuscript must be electronically uploaded to the web site prior to the conference in PDF format, be no more than twenty pages in length, and conform to the AAS manuscript format. If a complete manuscript is not received on time, then its presentation at the conference shall be forfeited; and if a presentation is not made by an author at the conference, then the manuscript shall be omitted from published proceedings.

## PROGRAM COMMITTEE

### Co-chairs:

Anna D. Guerman, Portugal, Peter M. Bainum, USA, Jean-Michel Contant, France

### Members:

Kyle Terry Alfriend, USA  
Hyochoong Bang, Korea  
Franco Bernelli, Italy  
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Gueorgui Smirnov, Portugal  
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Paolo Teofilatto, Italy

### Local Organizing Committee

Anna D. Guerman (University of Beira Interior, Portugal - coordinator)  
Margarida Ferreira (University of Porto, Portugal - coordinator)  
Maria Rosario Pinho (University of Porto, Portugal)  
Gueorgui Smirnov (University of Minho, Portugal)

More information about the conference: <http://iaaweb.org/content/view/450/611/>